broaden knowledge
clearly better
learning
enhance skills
accelerate understanding
education
increase productivity
technical training
broaden knowledge
clearly better learning
enhance skills
education
increase productivity
technical training
accelerate understanding

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North America 2011

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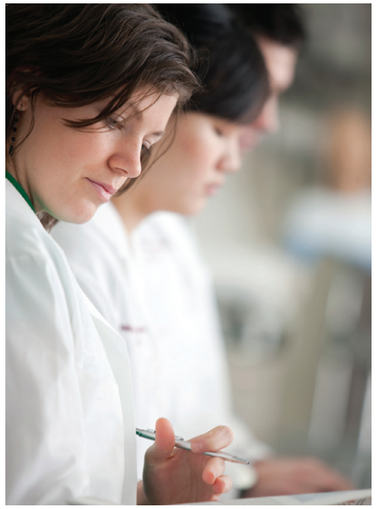

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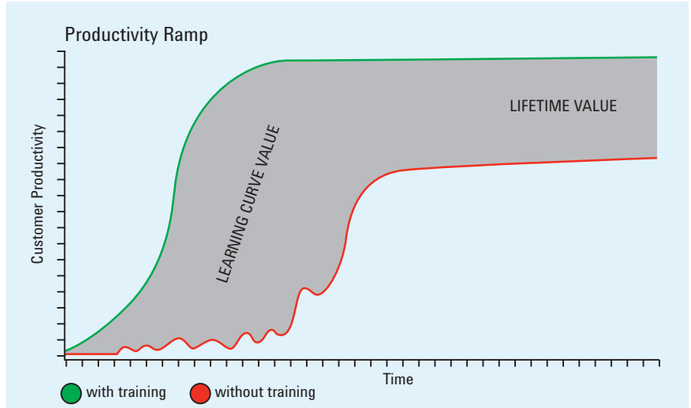
The goal for Agilent Education is to accelerate productivity and increase expertise in the laboratory. We offer several services tailored to your needs from formal classroom training at an Agilent site, customized training at your site or application consulting in your laboratory. Investing in a training program expedites the productive use of your new or existing instrument (figure 1). Your training investment will be rapidly returned in productivity gains.



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On-Site Consulting: Agilent can provide assistance with method development or application optimization at your location, helping you to maximize your lab productivity and ensure quality data.

For more detailed course information: www.agilent.com/chem/education

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GC Courses

Course No.	Course Name	Duration	Delivery Type
R1915A	**Practical Gas Chromatography**	**4 days**	**Hands On**

Description
This is a hands-on course providing the student with knowledge of the techniques of GC including details of the separation process, general GC procedures, temperature programming, instrumentation, troubleshooting, quantification, and method development. This course concentrates on the technique of gas chromatography as opposed to operation using a specific instrument or software.

H2615A	**Introduction to Capillary Gas Chromatography**	**1 day**	**Lecture Only**

Description
This course presents a one-day overview and introduction to capillary gas chromatography in a lecture-only format. Group exercises are frequently performed and students should bring a calculator.

H5926A	**Agilent 6890 GC & ChemStation Operation**	**5 days**	**Hands On**

Description
This course is designed to introduce the fundamental concepts of GC and the operation of the Agilent 6890 Gas Chromatograph using capillary columns and GC ChemStation software revision B.XX.

Practical Gas Chromatography

I really learned a lot. The instructor was very well organized and very knowledgeable. He was also very effective in delivering the information in a way I could understand, even with my limited GC experience.

Lacey King
Pegasus Laboratories, Inc.
Pensacola, FL

GC Courses

Course No.	Course Name	Duration	Delivery Type
H5308A	**Agilent 6890 GC Maintenance**	**4 days**	**Hands On**

Description
This course is designed for those who have the responsibility for the preventive maintenance and first level repair of the Agilent 6890 GC. The course covers preventive maintenance for split/splitless inlets, FID and TCD detectors and mainframe and electronics hardware. The current version of ChemStation will be used during the training but the course is software independent and will apply regardless of your instrument controller.

H5309A	**Agilent 6890 GC Troubleshooting & Preventive Maintenance**	**1 day**	**Lecture Only**

Description
This one-day course presents an introduction to troubleshooting and maintenance of the Agilent 6890 GC.

R1778A	**Agilent 7890 GC & ChemStation Operation**	**5 days**	**Hands On**

Description
This course is designed to introduce the fundamental concepts of GC and the operation of the Agilent 7890 GC using capillary columns and GC ChemStation software revision B.XX.

R1914A	**Agilent 7890 GC Maintenance**	**4 days**	**Hands On**

Description
This course is designed for those who have the responsibility for the preventive maintenance and first level repair of the Agilent 7890 GC and 7683/7693 ALS. The course covers preventive maintenance for split/splitless inlets, FID and TCD detectors and mainframe and electronics hardware. The current version of ChemStation will be used during the training but the course is software independent and will apply regardless of your instrument controller.

R1921A	**Agilent 7890 GC Routine Maintenance**	**1 day**	**Lecture Only**

Description
This one-day course presents an introduction to troubleshooting and maintenance of the Agilent 7890 GC and the 7683/7693 ALS.

H8968A	**Agilent Headspace Techniques, Operation & Maintenance**	**2 days**	**Hands On**

Description
This 2-day hands on course will give the analyst understanding and experience in developing a headspace method, maintaining the G1888A headspace sampler and basic troubleshooting.

LC Courses

Course No.	Course Name	Duration	Delivery Type
H1186A	**Techniques of HPLC**	**4 days**	**Hands On**

Description
This hands-on laboratory and lecture course is designed to increase the participants understanding and ability to apply the modern practices of High Performance Liquid Chromatography. The participant will learn how to select appropriate instrumentation and HPLC columns, optimize separations, and interpret and troubleshoot chromatograms. Participants will learn how theoretical considerations will help increase their ability to produce robust methods and solve analytical problems. HPLC practices and evaluation of system performance will help students increase their efficiency and data quality. The hands-on aspect of the course will allow a novice HPLC user to gain important practical operational experience with the HPLC.

H5929A	**Introduction to LC and the HPLC ChemStation**	**4 days**	**Hands On**

Description
This 4-day laboratory and lecture course is designed to introduce users to the practical aspects of performing routine analyses using the Agilent 1100/1200 Series Liquid Chromatographs with the HPLC B.XX ChemStation. Topics include instruction in the basics of liquid chromatography, instrument maintenance, calibration tables, sequencing, and chromatographic troubleshooting.

H5930A	**Practical HPLC**	**1 day**	**Lecture Only**

Description
This one-day course is designed to introduce users to basics of liquid chromatography. Get to know the instrumentation, operating parameters and practical tips necessary to get started in this exciting field.

H4033A	**Agilent HPLC 3D ChemStation Operation**	**4 days**	**Hands On**

Description
This course provides the user with laboratory exercises on the operation and maintenance of the Agilent 1100/1200 Series Liquid Chromatograph equipped with a Diode Array controlled by the B.XX HPLC (3D) ChemStation.

H4058A	**Agilent 1100/1200 Series Routine Maintenance**	**1 day**	**Lecture Only**

Description
This one day course is designed to introduce the operator of the Agilent 1100/1200 Series LC to troubleshooting and maintenance of the isocratic, binary, and quaternary pumping systems. The vacuum degasser, autoinjector, variable wavelength detector and diode array detector will also be discussed. This course is not for Infinity Series HPLCs.

LC Courses

Course No.	Course Name	Duration	Delivery Type
H8969A	**Agilent 1100/1200 Series Troubleshooting & Maintenance**	**2 days**	**Hands On**

Description
This course covers maintenance and troubleshooting for the Agilent 1100/1200 series modules with a major focus on the maintenance and limited repair of these modules. This course is not for Infinity Series HPLCs.

R1737A	**Ultra High Performance Liquid Chromatography**	**2 days**	**Hands On**

Description
This is a 2-day hands-on course for Ultra High Performance Liquid Chromatography method development using Agilent 1200 Series RRLC, Agilent 1260 or Agilent 1290 systems.

R1787A	**Agilent 1200 Series HPLC and EZChrom Operation**	**3 days**	**Hands On**

Description
This course is designed for those who want to enhance their skills in the techniques and software operation of the Agilent 1200 Series HPLC 3(D) with EZChrom Elite. The course utilizes a lecture format with instrument laboratories. Topics include creating qualitative and quantitative methods, sequencing, diode array optimization, and hardware maintenance.

R1739A	**Agilent Infinity Series HPLC ChemStation Operation**	**4 days**	**Hands On**

Description
This course is designed for those who want to enhance their skills in the techniques and software operation of the Agilent 1220, 1260 or 1290 Infinity Series HPLC 3(D) ChemStation. The course utilizes a lecture format with instrument laboratories. Topics include creating qualitative and quantitative methods, sequencing, diode array optimization, and hardware maintenance.

R1743A	**Agilent Infinity Series HPLC Troubleshooting & Maintenance**	**2 days**	**Hands On**

Description
This 2- day course is designed to provide hands-on experience performing routine maintenance and troubleshooting on the Agilent Infinity Series HPLC systems. The Agilent 1220, 1260 and 1290 will be covered. The following instrument modules will be addressed: vacuum degassers, isocratic, gradient and binary pumps, standard and high performance autosamplers, thermostatted column compartments, variable wavelength UV-Vis detectors and diode array UV-Vis detectors. Instrument diagnostic software will be used to show how to troubleshoot the Infinity Series instrumentation.

GC/MS Courses

Course No.	Course Name	Duration	Delivery Type
H4040A	**Techniques of GC/MS**	**3 days**	**Lecture Only**

Description
This course is designed to introduce the student to the techniques necessary to perform qualitative and quantitative analysis using a quadrupole GC/MS system. This is a lecture-only course which emphasizes student participation through extensive class exercises focused on the total analysis of an unknown sample.

R2158A	**Techniques of Ion Trap 200/2000 GC/MS**	**4 days**	**Hands On**

Description
An introductory course on 200 Series Ion Trap GC/MS for the novice user. GC/MS protocols such as ion trap theory and hardware, system evaluation, method creation, data acquisition and quantitation are discussed.

R2162A	**Techniques of Ion Trap 240 Series GC/MS**	**4 days**	**Hands On**

Description
An introductory course on 240 Ion Trap GC/MS for the novice user. GC/MS protocols such as ion trap theory and hardware, system evaluation, method creation, data acquisition and quantitation are discussed.

H4043A	**Agilent GC/MSD ChemStation & Instrument Operation**	**5 days**	**Hands On**

Description
This course is designed for those who want to enhance their skills in the use of an Agilent GC/MSD with ChemStation software. Topics include basic theory, tuning, SCAN and SIM data acquisitioin, data analysis and reporting. If you are using EnviroQuant software, refer to H4050A or H4053A.

H2294A	**Agilent GC/MSD Troubleshooting & Maintenance**	**3 days**	**Hands On**

Description
This course is designed for those who want to learn the routine troubleshooting and preventive maintenance procedures for the 5973 or 5975 GC/MSD.

H5947A	**Intro to Agilent GC/MSD Troubleshooting & Maintenance**	**1 day**	**Lecture Only**

Description
This course is designed for the GC/MSD operator who wants an introduction to troubleshooting and preventive maintenance of the most frequently occurring operational problems of the Agilent 5973 or 5975 Mass Selective Detector. The course will emphasize how to perform preventive maintenance to avoid these problems. This is a lecture-only course accompanied by a discussion of typical tunes, problem tunes, class exercises and summary of results.

H4050A	**Environmental GC/MS Instrumentation & ChemStation Operation**	**5 days**	**Hands On**

Description
This course is designed for those who want to enhance their skill in the use of an Agilent GC/MSD with EnviroQuant software. This course covers specialized tuning, data acquisition and reporting specific to environmental applications.

For more detailed course information: www.agilent.com/chem/education

GC/MS Courses

Course No.	Course Name	Duration	Delivery Type
R1718A	**Agilent Triple Quad GC/MS Techniques & Operation**	**4 days**	**Hands On**

Description
This 4 day, hands-on course will give analysts the experience to develop MRM methods using the Agilent Triple Quadrupole GC/MS. The topics include a complete look at data acquisition and scan types, MassHunter Qualitative and Quantitative Analysis software packages, reporting and routine maintenance of the instrument.

H4063A	**Interpretation of Mass Spectra**	**3 days**	**Lecture Only**

Description
This course is designed to present the fundamental concepts necessary to obtain high-quality data in SCAN mode from a GC/MS system for spectral interpretation purposes. The most commonly employed tools used in identifying compounds based on their mass spectra are introduced, the physical reasons for their efficacy explained, and their use reinforced through problem solving. The most common decomposition mechanisms responsible for fragment ions will also be introduced.

H5313A	**Introduction to Mass Spectral Interpretation I**	**1 day**	**Lecture Only**

Description
This course introduces the most commonly employed tools used in identifying unknown compounds from their mass spectra. Students will reinforce learned interpretation tools by solving a number of problems. The emphasis of this course is primarily calculational and students should bring a calculator as an aid in problem solving.

H5319A	**Intermediate Mass Spectral Interpretation II**	**1 day**	**Lecture Only**

Description
This course introduces two common decomposition mechanisms responsible for many fragment ions in mass spectra. The use of these mechanisms can help the analyst to determine an appropriate structure from among a number of possible isomers.

R1895A	**GC/MS Macro Programming**	**3 days**	**Computer Only**

Description
Topics covered are the macro environment, available key commands and their use in Data Analysis. Example macro programs will be provided to illustrate how it all goes together. The examples used are based on actual solutions to users requests for customized outputs.

R1727A	**Agilent 5975 Transportable GC/MS Techniques & Operation**	**4 days**	**Hands On**

Description
This four day, hands-on 5975T training course will provide both the theory and operation of the Agilent 5975T GC/MS using the ChemStation software. The instrumentation, tuning, data acquisition, data analysis, retention time locking, libraries, quantification, reporting DRS, sequencing and routine maintenance will be discussed.

Registering is Easy: www.agilent.com/chem/education

LC/MS Courses

Course No.	Course Name	Duration	Delivery Type
R1903A	**Agilent 6100 Series SQ LC/MSD Techniques & Operation**	**4 days**	**Hands On**

Description
This course is designed for those who want to enhance their skills in the operation of the Agilent 6100 Series SQ LC/MSD hardware and software. This course utilizes a lecture and lab format with laboratories using a laptop computer and an 6100 Series LC/MSD for hands-on instruction.

R1893A	**Agilent QQQ LC/MS Techniques & Operation**	**4 days**	**Hands On**

Description
This course is designed for those who want to enhance their skills in the operation of the Agilent 6400 Series Triple Quadrupole LC/MS. The course will cover triple quadrupole techniques, data acquisition, data reduction, quantitation, reporting, and maintenance. This course includes hands-on instrument operation.

R1657A	**Advanced Agilent 6410 QQQ LC/MS/MS Course**	**4 days**	**Hands On**

Description
This lecture and laboratory course covers advanced concepts in API electrospray and APCI LC triple quadrupole LC/MS/MS method development, method optimization, instrument operation, qualitative determinations and quantitative analysis. The majority of the class is devoted to hands-on instrument operation, supplemented with laboratory experiments using student samples. The course is customized towards the students needs with emphasis on methods development to improve sensitivity, minimizing sample suppression and interferences, optimization, specificity and improving sample throughput. The student will learn tricks and tips that can aid them in future method development and optimization.

R1904A	**Agilent Q-TOF LC/MS Techniques & Operation**	**4 days**	**Hands On**

Description
This course is designed for those who want to enhance their skills in the techniques and software operation of the Agilent 6500 Series Q-TOF LC/MS. The course utilizes a lecture format with instrument laboratories. Topics include tuning, acquisition, optimization, Worklists, MassHunter Qualitative and Quantitative software and hardware maintenance.

R1874A	**Agilent 6200 Series LC/MS TOF Techniques & Operation**	**4 days**	**Hands On**

Description
This course is designed for those who want to enhance their skills in the use of the Agilent 6200 Series LC/MS TOF including tuning, acquisition, optimization, and data analysis This course includes hands-on instrument operation.

For more detailed course information: www.agilent.com/chem/education

LC/MS Courses

Course No.	Course Name	Duration	Delivery Type
R2168A	**Techniques of Ion Trap LC/MS**	**4 days**	**Hands On**

Description
An introductory course on ion trap LC/MS for the novice user which covers configuring the system for optimum performance, understanding how LC parameters affect MS detection and stability as well as exploring the sensitivity and versatility of the ion trap system overall.

H8982A	**Agilent 1100 Series LC/MSD Trap Advance Applications**	**4 days**	**Hands On**

Description
This lecture and laboratory course covers advanced concepts in Electrospray and APCI, MSn method development, method optimization, instrument operation, qualitative determinations and quantitative analysis. The majority of the class is devoted to hands on instrument operation with laboratory experiments on the Agilent 1100 Series LC/MSD Trap. The course is customized towards pharmaceuticals / biomolecules or environmentally relevant applications.

Agilent 5973 GC-MSD Troubleshooting & Maintenance

Frank gave excellent wisdom on the GC/MS as well as years of experience speaking behind that knowledge. He was extremely helpful and made the class very interesting. He gave all the information in the book as well as the tricks of the trade from his years of experience.

Jonathan Hays
Textile Rubber and Chemical Company
Dalton,GA

Registering is Easy: www.agilent.com/chem/education

Data Handling Courses

Course No.	Course Name	Duration	Delivery Type
H2606A	**Agilent 6890 GC ChemStation Data Analysis & Reporting**	**3 days**	**Computer Only**

Description
This course is designed to teach the operation of the Agilent 6890 GC ChemStation software through instructor explanations, extensive hands-on, and laboratory exercises. The focus of the course is data analysis and reporting. If you require instruction in the fundamental concepts of gas chromatography and the operation of the instrument, please see R1915A or H5926A.

R1779A	**Agilent 7890 GC ChemStation Data Analysis & Reporting**	**3 days**	**Computer Only**

Description
This course is designed to teach the operation of the Agilent 7890 GC ChemStation software through instructor explanations, extensive hands-on, and laboratory exercises. The primary focus of the course is data analysis and reporting. If you require instruction in the fundamental concepts of gas chromatography and the operation of the instrument, please see R1915A or R1778A.

H4039A	**Agilent 1100/1200 HPLC 3D Data Analysis & Reporting**	**3 days**	**Computer Only**

Description
This 3-day computer course is designed for those operators who want to enhance their skills in the use of the Agilent HPLC (3D) ChemStation software revision B.XX. The topics covered include method creation, data analysis, integration and reporting. Special topics pertaining to the diode array detector are also covered such as diode array optimization and spectral data analysis.

H5928A	**Agilent 1100/1200 HPLC 2D Data Analysis & Reporting**	**2 days**	**Computer Only**

Description
This 2-day computer course is designed for those operators who want to enhance their skills in the use of the Agilent HPLC (2D) ChemStation software revision B.XX. The topics covered include method creation, data analysis, integration and reporting.

R1875A	**LC ChemStation Introduction**	**1 day**	**Computer Only**

Description
This course is desinged for those who want a 1-day introduction to the operation of the Agilent HPLC (2D) ChemStation software revision B.XX. This course is a condenstation of H5928A and focuses on the basic concepts of data acquisition, data analysis, sequences and reporting.

R1876A	**LC ChemStation Special Topics**	**1 day**	**Computer Only**

Description
This course is designed for those who want a 1-day training course in the advanced capabilities of the Agilent HPLC (3D) ChemStation software revision B.XX, especially in the use of the Diode Array Detector.

For more detailed course information: www.agilent.com/chem/education

Data Handling Courses

Course No.	Course Name	Duration	Delivery Type
R1719A	**Agilent HPLC Compliance ChemStation**	**2 days**	**Computer Only**

Description
This 2 day computer based training course is designed for those operators working with the HPLC Compliance ChemStation and ECM. Analysts requiring regulatory compliance will learn how to analyze, review, and report calibrated data in this environment.

R2181A	**Galaxie Chromatography Workstation**	**2 days**	**Computer Only**

Description
This course presents basic data handling principles for interpreting chromatographic data and practical applications using Windows based Galaxie, in standalone or client/server mode. Understand how to use the optimum amount of data for the most accurate and precise calculations and become skilled at post-run data manipulation and trend analysis.

H4076A	**Agilent GC/MSD ChemStation Data Analysis & Reporting**	**3 days**	**Computer Only**

Description
This course is designed for those operators who want to enhance their skill in the use of the Agilent GC/MSD ChemStation. If you require instruction in tuning and data acquisition, please see H4043A. If you are using EnviroQuant software, refer to H4053A or H4050A.

H4053A	**Agilent GC/MSD ChemStation EnviroQuant Data Analysis & Reporting**	**3 days**	**Computer Only**

Description
This course is designed for chromatographers wanting to improve their skill in utilizing the EnviroQuant software. It will cover data analysis and reporting, including completion of the "EPA like" forms. If you require instruction in tuning and data acquisition, please see H4050A.

R1788A	**Agilent MassHunter Data Analysis & Reporting**	**2 days**	**Computer Only**

Description
This 2 day course will give analysts an opportunity to learn how to use MassHunter Qualitative Analysis, Quantitative Analysis, and Reporting as it applies to unit mass resolution mass spectrometers (GC and LC single quadrupoles and GC and LC triple quadrupoles). This course is designed for those students who already have significant background in mass spectrometry, but need to learn about the MassHunter software.

R1717A	**Agilent GC/MSD Deconvolution Reporting Software Operation**	**1.5 days**	**Computer Only**

Description
This data analysis course will cover the fundamentals of the Deconvolution Reporting Software, G1716AA. DRS is an add-on application package to the Agilent MSD ChemStation. Students will learn to use DRS interactively from Data Analysis and to optimize settings. Other topics covered include software installation, automation (sequence), compound addition to existing databases, AMDIS deconvolution and NIST Search. The students will need to use laptops or ChemStations during the course.

Registering is Easy: www.agilent.com/chem/education

Atomic Absorption Courses

Course No.	Course Name	Duration	Delivery Type
R2192A	**Techniques of Flame AA Spectroscopy**	**3 days**	**Hands On**

Description
This is an introductory course for the AA novice, as well as those who want to learn basic principles and gain a more thorough understanding of current flame AA technology. Learn about the AA productivity tools available such as SIPS, SPS-3 and Fast Sequential AA. Discover ways of troubleshooting and maintaining your equipment for greater uptime. Learn to overcome interferences and optimize your methods for improved accuracy and precision.

R2194A	**Techniques of Furnace AA Spectroscopy**	**3 days**	**Hands On**

Description
This course is for those who want to learn basic principles of AA and gain a more thorough understanding of current graphite furnace AA technology. Become skilled at maintaining your furnace for maximum productivity. Also learn to overcome sample matrix problems and find the most efficient ways to develop methods that deliver accurate results.

1100 HPLC Troubleshooting & Maintenance

Hands-on laboratories are very helpful and gave me more confidence to repeat with my own instrument. Useful tips and tricks.

Crystal Whitney
Houston, Texas

ICP & ICP-MS Courses

Course No.	Course Name	Duration	Delivery Type
R2205A	**Techniques of Simultaneous ICP-OES**	**3 days**	**Hands On**

Description
This course covers the basic principles of Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES), focusing on operation and optimization of the 700-ES series ICP-OES. The learning goals are focused on automating the system to reduce analysis time as well as exploring techniques for sample handling and overcoming interferences for better data accuracy and precision.

H8974A	**Agilent 7500 Series ICP-MS Techniques & Operation**	**4 days**	**Hands On**

Description
This course is designed for new users of the Agilent 7500 Inductively Coupled Plasma Mass Spectrometer (ICP-MS) who want to understand the aspects of routine operation, applications, and maintenance.

H8974M	**Agilent 7500 Series ICP-MS Techniques & Operation with MassHunter**	**4 days**	**Hands On**

Description
The course is designed as a beginner to intermediate level class aimed at providing a comprehensive overview of the Agilent 7500 Series ICP-MS technique and Agilent's MassHunter software. Some advanced topics (e.g., laser ablation, direct organic solvent sampling, and chromatography sample introduction) are introduced, but not covered in depth.

R1777A	**Agilent 7700 Series ICP-MS Techniques & Operation**	**4 Days**	**Hands on**

Description
The course is designed as a beginner to intermediate level class aimed at providing a comprehensive overview of the Agilent 7700 Series ICP-MS technique and Agilent's MassHunter software. Some advanced topics (e.g., laser ablation, direct organic solvent sampling, and chromatography sample introduction) are introduced, but not covered in depth.

H2620E	**ICP-MS Environmental Applications**	**3 days**	**Hands On**

Description
This course is designed for intermediate to advanced Agilent ICP-MS customers analyzing environmental applications. Topics covered in this course will include advanced tuning, software QC configuration, custom reporting and regulatory agency methodology updates.

H2620T	**Agilent 7500 Advance Tuning and Maintenance**	**3 days**	**Hands On**

Description
This course is designed for intermediate to advanced Agilent ICP-MS customers. This course will offer the operator an in-depth review of the ICP-MS design and function to maximize performance and data quality for various applications. The course will also cover advanced maintenance routines that will allow the instrument to consistently perform to the highest potential as well as provide increased uptime.

FTIR Courses

Course No.	Course Name	Duration	Delivery Type
R2186A	**Techniques of FTIR – Resolutions Pro**	**2 days**	**Hands On**

Description
This course is designed for the novice FT-IR user to introduce the basic concepts of FT-IR and the use of Resolutions Pro software. The attendee will learn how to efficiently collect FT-IR data and set up routine methods as well as choose and utilize the best sampling accessory for a specific application. The basics of troubleshooting and maintenance will also be discussed.

R2187A	**Advanced FTIR**	**1 day**	**Hands On**

Description
This course for the researcher teaches the concepts of step-scan FT-IR and how to use Resolutions Pro software for advanced experiments.

R2188A	**Microscope and Spectrochemical Imaging**	**1 day**	**Hands On**

Description
This course is designed for the microscope owner to learn to effectively use an FT-IR microscope for analyzing difficult samples. This course will help the user get the most information from this data-rich technique.

R2189A	**Infrared Microscope Training**	**1 day**	**Hands On**

Description
This one-day course is designed for the owner of a microscope. The focus of the training will be to learn to use Resolutions Pro on a microscope/imaging system to their best advantage. Topics covered in this class include data collection and analysis, microscope usage and mapping experiments using a motorized stage.

Agilent 7890 GC Maintenance

Was able to take apart any part of the GC that we wanted to and felt comfortable with. The lectures were informative and the instructor was very knowledgable.

Lisa Van Dyke
Pueblo, Colorado

For more detailed course information: www.agilent.com/chem/education

Dissolution Courses

Course No.	Course Name	Duration	Delivery Type
R2208A	**Fundamentals of Dissolution**	**2 days**	**Hands On**

Description
This is a comprehensive two-day course designed for new and emerging dissolution analysts. The course emphasizes basic dissolution fundamentals and theory, along with focused discussions on current compendial dissolution testing apparatus, USP physical parameter requirements and the current USP calibration procedure. Hands-on workshops provide participants with experience preparing for and executing a dissolution test.

R2209A	**Advanced Dissolution: Principles & Theory**	**2 days**	**Hands On**

Description
This course is a two-day program designed for the advanced dissolution analyst, as well as those involved in drug metabolism, drug disposition, pharmacokinetics and analytical methods development. The participant will learn dissolution theory and participate in focused discussion on current practices with the compendial devices, USP Apparatus 1 through 7 and non-official dissolution techniques. Special attention is devoted to the development of meaningful in vitro / in vivo correlation, design and development of dissolution methods and the use of dissolution data in bioavailability / bioequivalence assessments. Hands-on laboratory sessions put theory into practice.

R2210A	**Dissolution Method Development & Validation**	**2 days**	**Lecture Only**

Description
This is an intensive two-day course for the experienced R&D, method development, or QC chemists interested in the development and validation of discriminating in vitro dissolution methods. This course will provide an interactive approach to the selection of a discriminating method, including discussion of biorelevant media and test conditions and an examination of appropriate testing equipment. New advancements in non-compendial apparatus and automated equipment (including fiber optics) in regards to innovative method development are also explored. The Biopharmaceutics Classification System will be an integral part of the method development aspects. Accompanying these topics are presentations of regulatory guidelines for concise method validation and instructional exercises designed to enhance the students learning experience. Participants will be encouraged to share their method development experiences and problems.

R2211A	**Dissolution & Bioequivalence of Generic Pharmaceuticals**	**2 days**	**Lecture Only**

Description
This is a two-day program designed for the advanced dissolution analyst, as well as those involved in drug metabolism, drug disposition, generics, pharmacokinetics and analytical methods development. Participants learn how to demonstrate bioavailability and bioequivalence of pharmaceutical formulations without designing and executing time consuming and expensive clinical trials in humans.

R2212A	**Correlating Dissolution & Bioavailability: Understanding IVIVC**	**2 days**	**Lecture Only**

Description
This course is designed to present the means to access and develop methods of correlating in vitro and in vivo performance parameters. These parameters permit effective means to predict physiological availability (bioavailability). The theoretical as well as the practical details of in vitro / in vivo correlation (IVIVC) are presented during the didactic sections. Participants become conversant with the intricacies associated while correlating dissolution and bioavailability data thus providing the means to understand IVIVC.

Registering is Easy: www.agilent.com/chem/education

NMR Courses

Course No.	Course Name	Duration	Delivery Type
R2141A	**NMR New User**	**2 days**	**Hands On**

Description
This lecture and demo course is designed to introduce NMR users to both a NMR spectrometer and its associated software (including menus, commands, experiments, automation and various interfaces). This class will cover setting up, acquiring, and processing of various 1- and 2-dimensional experiments. It focuses on running solution-state experiments, rather than on solids or imaging experiments.

R2143A	**NMR System Manager**	**2 days**	**Lecture Only**

Description
This course is designed for users and system administrators of VnmrJ-based NMR spectrometers with an emphasis on system customization for individual sites. This is primarily a lecture course using the latest version of VnmrJ, with some sessions at a data system.

R2144A	**Solids NMR-Basic**	**2 days**	**Hands On**

Description
This course is valuable for first-time users of Solids as well as for experienced Solids users who wish to obtain specific knowledge about the operation of Solids, MAS probes and the NMR software.

R2146A	**NMR User Programming**	**3 days**	**Computer Only**

Description
This course is for users of the UNITY, UNITYplus, UNITY INOVA and VNMRS spectrometers who want to write their own pulse sequences for liquids NMR spectroscopy. Please note: Imaging pulse programming is covered in NMR Imaging (R2150A).

R2147A	**NMR Automation**	**1 day**	**Hands On**

Description
This one day lecture and demo course covers the setup and use of the VnmrJ software for environments which require some form of automation. It is taught using the most recently released version of VnmrJ and focuses on running tube-based solution-state samples. Some knowledge of macro writing is helpful but not necessary.

R2148A	**Biomolecular NMR**	**3 days**	**Lecture Only**

Description
This course is for users working with biomolecules such as proteins, peptides, polysaccharides, nucleotides, DNA and RNA. The course will discuss fundamentals of 2D/3D acquisition and processing, using gradients within pulse sequences, “packages” and converting an existing pulse sequence to a “package” format. Modifications and changes in operating techniques and strategies when using cryogenic probes are covered.

NMR Courses

Course No.	Course Name	Duration	Delivery Type
R2149A	**Basics of Structural Characterization**	**2 days**	**Hands On**

Description
This course will cover the essentials of both 1H and heteronuclear NMR as applicable to structural problems in the organic chemistry environment. This will be a hands-on class, focused on data interpretation.

R2150A	**NMR Imaging**	**3 days**	**Hands On**

Description
This course is a general course on the fundamentals of NMR imaging in the vertical and horizontal systems. It includes hands-on training and lectures on basic imaging techniques.

R2151A	**VNMRS Hardware Maintenance Training**	**8 days**	**Hands On**

Description
The purpose of this class is to familiarize the student with the overall operation and signal flow through the instrument enabling them to effectively isolate and correct system problems. The student will be able to troubleshoot down to the board level only.

Lab Informatics Courses

Course No.	Course Name	Duration	Delivery Type
H8983A	**ChemStation Plus User Operation**	**2 days**	**Computer Only**

Description
This course covers the basic functionality of the ChemStation Plus software. ChemStation Plus is ChemStation instrument control, data acquisition and data processing software with ChemStore data organization and management database and the Security Pack regulatory compliance package. ChemStation instruction covers the basics of creating a quantitative method and sequences to analyze complete sets of samples within the ChemStation Plus environment. ChemStore topics will cover basics of setting up a study & custom fields, data transfer, query & reporting. The Security Pack functions are discussed as they apply to each topic for operation of ChemStation with ChemStore.

H8978A	**ChemStation Plus System Administration**	**1 day**	**Computer Only**

Description
This course teaches administration of the ChemStation Plus software. ChemStation Plus is ChemStation instrument control, data acquisition and data processing software with ChemStore data organization and management database and the Security Pack regulatory compliance package. Administration is centered on the ChemStore C/S database and topics will cover basics of setting user account management, security, and administration. The Security Pack functions are discussed as they apply to each topic for operation of ChemStation with ChemStore.

R1643A	**OL ECM Advanced User & Administration**	**3 days**	**Computer Only**

Description
This three-day lecture and computer laboratory course is designed to instruct users on fundamental theory and operation of OL ECM. It prepares individuals to configure and maintain the Agilent OL ECM system on servers and client workstations. Discussion and hands-on exercises are designed to emphasize user interaction with Agilent OL ECM.

R1800A	**Agilent OL Instrument Administration**	**2 days**	**Computer Only**

Description
This course is designed for administrators of Agilent OL ICM Instrument software. Topics covered include account creation and administration, global administration including instrument and printer configuration. ECM functionality includes compliance setup, audit trails and e- signatures. Scheduler setup and BPM setup (if installed) are also covered.

R1849A	**EZChrom Elite User Operation**	**2 days**	**Computer Only**

Description
This course is designed to give the user of the EZ Chrom Elite software a general working knowledge. Upon completion of the course the student will be able to do the following: run a single sample, run a sequence of samples, batch reprocess a sequence of samples, calibrate a method either single level, or multi-level, integrate, and annotate a chromatogram, create a simple custom report, create a simple advanced report.

R1850A	**EZChrom Elite Administration**	**1 day**	**Computer Only**

Description
This course teaches the system administrators how to create and manage projects, instruments and locations. It instructs them in how to apply advanced file security and gives a general understanding of how to troubleshoot their system. If a software key is in use in their system, instructions are given on how to manage the key.

For more detailed course information: www.agilent.com/chem/education

North America General Training Information

Cancellation Policy

Cancellation or rescheduling must be made within 10 business days prior to the start of the course to avoid a 50% billing to the attendee. A one-day cancellation or non-attendance will result in full billing. Agilent reserves the right to cancel any course 10 business days prior where minimum enrollment is not met. The purchase of non-refundable airline tickets is not recommended due to possible course cancellations

Agilent training classes are intended solely for end-users of Agilent instrumentation and Agilent approved service providers.

Class Times

Registration begins at 8:30 a.m. on the first day of class. Class runs from 9:00 a.m. to 5:00 p.m. each day. Class ends by 5:00 p.m. For 4 and 5 day classes the instructors try to end early on the final day of class to accommodate students travel arrangements.

Training Location Information

The Training Location Information link on the Agilent education website provides you with important information to make your travel arrangements when attending a course. It includes:

- Training location address
- Hotel recommendations
- Directions from the major local airport

www.agilent.com/chem/trainingsites-northamerica

Prices

Prices are listed on the Agilent Customer Education website. These prices are subject to change without notice.

On-Demand Courses

Some courses are offered on an 'on-demand' basis. If you are interested in a course that is not currently scheduled or not offered in your area, call our registrar and place your name on a wait list.

For information call:

Phone: 1-800-227-9770 Option 1,3
Email: northam_registration@agilent.com
Web: www.agilent.com/chem/education

Registering is easy: www.agilent.com/chem/education

Training-Calendar 2011

Course Title	Course No.	Days	Price USD	Price CAD	February	March	April	May	June	July	August	September	October	November	December	January 2012
GC Courses																
Practical Gas Chromatography	R1915A	4	$2,300	$2,700				16 - 19 Chicago	5/31 - 6/3 Ville St-Laurent				3 - 6 Chicago	15 - 18 North York		
Agilent 6890 GC & ChemStation Operation	H5926A	5	$2,750	$3,300		7 - 11 Alpharetta	4 - 8 North York		6 - 10 Alpharetta			12 - 16 Alpharetta 19 - 23 North York			5 - 9 Alpharetta	
Agilent 6890 GC Maintenance	H5308A	4	$2,300	$2,700		22 - 25 Alpharetta		3 - 6 North York 17 - 20 Alpharetta		26 - 29 Alpharetta		27 - 30 Alpharetta		1 - 4 North York	13 - 16 Alpharetta	
Agilent 6890 GC Troubleshooting & Preventive Maintenance	H5309A	1	$500	$600	15 Houston		26 Calgary		3 Mississauga 9 Chicago		2 Houston 26 Richardson				9 Chicago	
Agilent 7890 GC & ChemStation Operation	R1778A	5	$2,750	$3,300	14 - 18 Alpharetta	28 - 5/2 Ville St-Laurent		9 - 13 Alpharetta			22 - 26 Alpharetta			7 - 11 Alpharetta		
Agilent 7890 GC Maintenance	R1914A	4	$2,300	$2,700		1 - 4 Ville St-Laurent	5 - 9 Alpharetta				2 - 6 Alpharetta		25 - 29 Alpharetta 25 - 29 Ville St-Laurent			24 - 27 Alpharetta
Agilent 7890 GC Routine Maintenance	R1921A	1	$500	$600	16 Houston 18 Santa Clara		29 Alpharetta	30 Mississauga			3 Houston	2 Wilmington 30 Ville St-Laurent		15 Calgary		
Agilent Headspace Techniques, Operation & Maintenance	H8968A	2	$1,200	$1,400			19 - 20 Alpharetta						4 - 5 Alpharetta			
LC Courses																
Techniques of HPLC	H1186A	4	$2,300	$2,700	1-4 Alpharetta		5 - 8 Chicago	10 - 13 Ville St-Laurent			29 - 9/1 Chicago			29 - 12/2 Alpharetta		
Introduction to LC and the HPLC ChemStation	H5929A	4	$2,300	$2,700			12 - 15 Alpharetta						4 - 7 Alpharetta			
Agilent HPLC 3D ChemStation Operation	H4033A	4	$2,500	$3,000		29 - 4/1 Alpharetta										
Agilent 1100/1200 Series Routine Maintenance	H4058A	1	$ 500	$600		22 Santa Clara	4 Chicago 26 Ville St-Laurent	10 Calgary 17 Wilmington				7 Santa Clara	25 Englewood	14 Calgary	6 Mississauga	
Agilent 1100/1200 Series Troubleshooting & Maintenance	H8969A	2	$1,400	$1,650		8 - 9 Alpharetta 21 - 22 Ville St-Laurent		24 - 25 Alpharetta	15 - 16 North York	6 - 7 Alpharetta		7 - 8 Alpharetta	4 - 5 Ville St-Laurent	15 - 16 Alpharetta		
Agilent 1200 Series HPLC and EZChrom Operation	R1787A	3	$1,950	$2,350				3 - 5 Alpharetta					18 - 20 Alpharetta			

Training-Calendar 2011

Course Title	Course No.	Days	Price USD	Price CAN	February	March	April	May	June	July	August	September	October	November	December	January 2012
GC/MS Courses																
Techniques of GC/MS	H4040A	3	$1,575	$1,900		29 - 31 Wilmington							25 - 27 Alpharetta			
Techniques of Ion Trap 200/2000 GC/MS	R2158A	4	$2,850	$2,850					6 - 9 Wood Dale	19 - 22 Wood Dale		27 - 30 Wood Dale				
Techniques of Ion Trap 240 Series GC/MS	R2162A	4	$2,850	$2,850		21 - 24 Wood Dale					15 -18 Wood Dale					
Agilent GC/MSD ChemStation & Instrument Operation	H4043A	5	$3,000	$3,500	28 - 3/4 Alpharetta	7 - 11 North York	4 - 8 Alpharetta	16 - 20 Alpharetta	13 - 17 Alpharetta		8 - 12 Alpharetta	12 - 16 Alpharetta 26 - 30 North York	17 - 21 Alpharetta		5 - 9 Alpharetta	23 - 27 Alpharetta
Agilent GC/MSD Troubleshooting & Maintenance	H2294A	3	$1,800	$2,100	15 - 17 North York	8 - 10 Alpharetta	12 - 14 Alpharetta	24 - 26 Alpharetta	7 - 9 North York 21- 23 Alpharetta	19 - 21 Alpharetta		20 - 22 Alpharetta	18 - 20 North York		13 - 15 Alpharetta	
Intro to Agilent GC/MSD Troubleshooting & Maintenance	H5947A	1	$500	$600	17 Houston 22 Ville St-Laurent		27 Calgary 29 Anaheim				4 Houston	27 Andover	25 Calgary			
Environmental GC/MS Instrumentation & ChemStation	H4050A	5	$3,250	$3,900					6 - 10 Alpharetta							
Agilent Triple Quad GC/MS Techniques & Operation	R1718A	4	$3,200	$3,700	8 -11 Alpharetta	1 - 4 Alpharetta		10 - 13 Alpharetta	14 - 17 Alpharetta	12 - 15 Alpharetta	16 - 19 Alpharetta	20 - 23 Alpharetta	11 - 14 Alpharetta	15 - 18 Alpharetta	13 - 16 Alpharetta	
Interpretation of Mass Spectra	H4063A	3	$1,650	$2,000			19 - 21 Alpharetta			6 - 8 Santa Clara			25 - 27 Wilmington			
Introduction to Mass Spectral Interpretation I	H5313A	1	$500	$600									24 Calgary			
GC/MS Macro Programming	R1895A	3	$1,800	$2,200			26 - 28 Alpharetta							2 - 4 Wilmington		
LC/MS Courses																
Agilent 6100 Series SQ LC/MSD Techniques & Operation	R1903A	4	$2,800	$3,300			5 - 8 Schaumburg		14 - 17 Schaumburg		9 - 12 Schaumburg		4 - 7 Schaumburg		6 - 9 Schaumburg	
Agilent QQQ LC/MS Techniques & Operation	R1893A	4	$3,850	$4,600	1 - 4 Schaumburg	1 - 4 Wood Dale	5 - 8 12 - 15 Wood Dale 5 - 8 Calgary	3 - 6 10 - 13 Wood Dale	14 - 17 21 - 24 Wood Dale	12 -15 19 - 22 Wood Dale	16 - 19 Wood Dale	13 - 16 20 - 23 Wood Dale	11 - 14 18 - 21 Wood Dale 18 - 21 Calgary	8 - 11 Wood Dale	13 - 16 Wood Dale	24 - 27 Wood Dale
Advanced Agilent 6410 QQQ LC/MS/MS Course	R1657A	4	$4,000	$4,800		1 - 4 Durham							18 - 21 Durham			
Agilent Q-TOF LC/MS Techniques & Operation	R1904A	4	$3,850	$4,600	8 - 11 Schaumburg	1 - 4 8 - 11 Wood Dale	12 - 15 Calgary 12 - 15 Wood Dale	10 - 13 Wood Dale	21 - 24 Wood Dale	19 - 22 Wood Dale	16 - 19 Wood Dale	13 - 16 20 - 23 Wood Dale	11 - 14 Wood Dale	1 - 4 Calgary 15 - 18 Wood Dale	6 - 9 Wood Dale	24 - 27 Wood Dale
Agilent 6200 Series LC/MS TOF Techniques and Operation	R1874A	4	$3,850	$4,600	8 - 11 Schaumburg	8 - 11 Schaumburg	26 - 29 Schaumburg		28 - 7/1 Schaumburg		9 - 12 Schaumburg	27 - 30 Schaumburg	18 - 21 Schaumburg	8 - 11 Schaumburg		10 - 13 Schaumburg
Agilent 1100 Series LC/MSD Trap Advance Applications	H8982A	4	$3,238	$4,000	22 - 25 Durham								4 - 7 Durham			

Training-Calendar 2011

Course Title	Course No.	Days	Price USD	Price CAN	February	March	April	May	June	July	August	September	October	November	December	January 2012
Data Handling Courses																
Agilent 6890 GC ChemStation Data Analysis & Reporting	H2606A	3	$1,800	$2,100				5/31 - 6/2 Missassauga	6 - 8 Chicago		23 - 25 Richardson			16 - 18 Calgary	6 - 8 Chicago	
Agilent 7890 GC ChemStation Data Analysis & Reporting	R1779A	3	$1,800	$2,100	15 - 17 Santa Clara		26 - 28 Alpharetta				30 - 9/1 Wilmington	27 - 29 Ville St-Laurent				
Agilent 1100/1200 HPLC 3D Data Analysis & Reporting	H4039A	3	$1,800	$2,100			27 - 29 Ville St-Laurent	11 - 13 Calgary 18 - 20 Wilmington					26 - 28 Englewood		7 - 9 Mississauga	18 - 20 Alpharetta
Agilent 1100/1200 HPLC 2D Data Analysis & Reporting	H5928A	2	$1,200	$1,400			27 - 28 Ville St-Laurent	11 - 12 Calgary 18 - 19 Wilmington					26 - 27 Englewood		7 - 8 Mississauga	18 - 19 Alpharetta
LC ChemStation Introduction	R1875A	1	$500	$600		23 Santa Clara						8 Santa Clara				
LC ChemStation Special Topics	R1876A	1	$500	$600		24 Santa Clara						9 Santa Clara				
Agilent HPLC Compliance ChemStation	R1719A	2	$1,200	$1,400		23 - 24 Alpharetta						28 - 29 Alpharetta				
Galaxie Chromatography Workstation	R2181A	2	$1,200	$1,400		17 - 18 Wood Dale	22 - 23 Wood Dale			14 - 15 Wood Dale			13 - 14 Wood Dale		8 - 9 Wood Dale	
Agilent GC/MSD ChemStation Data Analysis & Reporting	H4076A	3	$1,200	$1,400	23 - 25 Ville St-Laurent		26 -28 Anaheim					28 - 30 Andover	26 - 28 Calgary			
Agilent MassHunter Data Analysis & Reporting	R1788A	2	$1,200	$1,400		30 - 31 Cary					31 - 9/1 Santa Clara					
Atomic Absorption Courses																
Techniques of Flame AA Spectroscopy	R2192A	3	$2,100	$2,100		15 - 17 Wood Dale			7 - 9 Wood Dale		9 - 11 Wood Dale	20 - 22 Wood Dale	11- 13 Wood Dale			
Techniques of Furnace AA Spectroscopy	R2194A	3	$2,100	$2,100			12 - 14 Wood Dale			6 - 8 Wood Dale				8 - 10 Wood Dale		
ICP & ICP-MS Courses																
Techniques of Simultaneous ICP-OES	R2205A	3	$2,300	$2,700		8 - 10 Wood Dale		17 - 19 Wood Dale			2 - 4 Wood Dale	13 - 15 Cary		1 - 3 Cary	6 - 8 Wood Dale	
Agilent 7500 Series ICP-MS Techniques & Operation	H8974A	4	$3,000	$3,600	22 - 25 St. Charles				14 - 17 St. Charles				11 - 14 St. Charles			
Agilent 7500 Series ICP-MS Techniques & Operation with MassHunter	H8974M	4	$3,000	$3,600			12 - 15 St. Charles					13 - 16 St. Charles				
Agilent 7700 Series ICP-MS Techniques & Operation	R1777A	4	$3,000	$3,600	8 - 11 Wilmington			10 - 13 Wilmington			9 - 12 Wilmington			8 - 11 Wilmington		
ICP-MS Environmental Applications	H2620E	3	$2,300	$2,700		22 - 24 St. Charles						27 - 29 St. Charles				
Agilent 7500 Advance Tuning and Maintenance	H2620T	3	$2,300	$2,700						12 - 14 St. Charles					6 - 8 St. Charles	

Training-Calendar 2011

Course Title	Course No.	Days	Price USD	Price CAN	February	March	April	May	June	July	August	September	October	November	December	January 2012
FTIR Courses																
Techniques of FTIR - Resolutions Pro	R2186A	2	$1,550	$1,550				16 - 17 Lexington			22 - 23 Lexington				12 - 13 Lexington	
Advanced FTIR	R2187A	1	$1,050	$1,050				20 Lexington			26 Lexington				16 Lexington	
Microscope & Spectrochemcial Imaging	R2188A	1	$1,050	$1,050				18 Lexington			24 Lexington				14 Lexington	
Infrared Microscope Training	R2189A	1	$1,550	$1,550				19 Lexington			25 Lexington				15 Lexington	
Dissolution Courses																
Fundamentals of Dissolution	R2208A	2	$1,905	$1905			12 - 13 Cary		7 - 8 Cary		23 - 24 Cary		11 - 12 Cary		6 - 7 Cary	
Advanced Dissolution: Principles & Theory	R2209A	2	$1,905	$1,905		15 - 16 Cary						13 - 14 Cary				
Dissolution Method Development & Validation	R2210A	2	$1,905	$1,905		22 - 23 Cary						20 - 21 Cary				
NMR Courses																
NMR New User	R2141A	2	$1,000	$1,000				2 - 3 Santa Clara	6 - 7 Santa Clara	18 - 19 Cary	8 - 9 Santa Clara		10 - 11 Cary	7 - 8 Santa Clara		
NMR System Manager	R2143A	2	$1,000	$1,000				4 - 5 Santa Clara	8 - 9 Santa Clara	20 - 21 Cary	10 - 11 Santa Clara		12 - 13 Cary	9 - 10 Santa Clara		
Solids NMR-Basic	R2144A	2	$1,000	$1,000							16 - 17 Santa Clara					
NMR User Programming	R2146A	3	$1,000	$1,000				16 - 18 Santa Clara								
NMR Automation	R2147A	1	$500	$500				6 Santa Clara	10 Santa Clara	22 Cary	12 Santa Clara		14 Cary	11 Santa Clara		
Biomolecular NMR	R2148A	3	$1,500	$1,500				19 - 21 Santa Clara								
Basics of Structural Characterization	R2149A	2	$1,000	$1,000					14 - 15 Santa Clara							
Lab Informatics Courses																
EZChrom Elite User Operation	R1849A	2	$1,200	$1,400		24 - 25 Ville St-Laurent	5 - 6 Alpharetta						11 - 12 Alpharetta			
EZChrom Elite Administration	R1850A	1	$650	$800			7 Alpharetta						13 Alpharetta			

Notes

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Whether you are buying new equipment or optimizing efficiency with current instrumentation – Agilent will deliver an education solution that will improve your productivity and provide quality results. An initial investment in education will pay for itself and more.

QQQ LC/MS Techniques & Operation

Excellent presentation and content. Good mix of lecture and lab. Very good time management and personal attention to individual participant's need.

Malcolm Reeves
Battelle
Stockton, UT

Agilent GC-MSD ChemStation & Instrument Operation

Helpfulness of instructor, supplemental materials provided, breadth of topic coverage. Instructor was engaging, very knowledgeable and extremely organized and helpful.

Dr. Jim Lane
University of Wisconsin - Superior
Superior, WI

Information, descriptions, and specifications in this publication are subject to change without notice.

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